

Sheet 1 of 3

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: August 24, 2000

ATTY DOCKET NO.  
00177/MU-1296/P9558-04SERIAL NO.  
09/244,037

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APPLICANT  
Mitsuaki OSHIMA et al.

AUG 25 2000

FILING DATE  
February 4, 1999

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	5,311,550	5-10-94	Fouche et al.	—	—	
AS	AB	4,630,287	12-16-86	Armstrong	—	—	
AS	AC	4,271,527	6-2-81	Armstrong	—	—	
AS	AD	5,050,188	9-17-91	Dirr	—	—	
	AE						
	AF						
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	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
AS	AJ	0365431	4-25-90	EP	—	—		X
↓	AK	0485105	5-13-92	EP	—	—	X	
↓	AL	92/14343	8-20-92	WO	—	—	X	
↓	AM	89/08366	9-8-89	WO	—	—	X	
AS	AN	0031193	7-1-81	EP	—	—	X	

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AS	AO	Shinji Matsumoto et al., "200 Mb/s 16 QAM Digital Radio-Relay System Operating in 4 and 5 GHz Bands", Japan Telecommunications Review, January 1982, vol. 24, no. 1, pages 65-73.
↓	AP	M. Pecot et al., "Compatible Coding of Television Images, Part 2. Compatible System", Signal Processing Image Communication, October 2, 1990, no. 3, pages 259-268.
AS	AQ	Mitsuaki Oshima, "Constellation-Code Division Multiplex for Digital HDTV", IEEE, 1992, pages 1086-1092.

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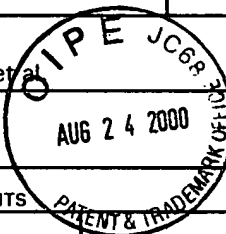
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
JS	AJ	0311188	4-12-89	EP	—	—	X
↓	AK	0329158	8-23-89	EP	—	—	X
↓	AL	64-5135	1-10-89	JP	—	—	X
↓	AM	63-28145	2-5-88	JP	—	—	X
JS	AN	62-133842	6-17-87	JP	—	—	X

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

JS	AO	Tricia Hill et al., "A Performance Study of NLA 64-State QAM", IEEE Transactions on Communications, vol. COM-31, June 1983, no. 6, pages 821-825.
JS	AP	Hideki Ishio et al., "A Proposal of a Carrier Digital Transmission System Using Multi-Level APSK", pages 1-20.
	AQ	

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Date Submitted to PTO: August 24, 2000

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Mitsuaki OSHIMA et al**AUG 25 2000**FILING DATE  
February 4, 1999**AUG 24 2000**GROUP  
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	AI						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>AS</i>	AJ	53-137657	12-1-78	JP	—	—	X
	AK						
	AL						
	AM						
	AN						

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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Sheet 1 of 1

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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
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Date Submitted to PTO: September 21, 2000

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APPLICANT

Mitsuaki OSHIMA et al.

FILING DATE

February 4, 1999

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	4,636,876	1-13-87	Schwartz	—	—	
	AB	4,855,692	8-8-89	Kennard et al.	—	—	
	AC	4,873,701	10-10-89	Tretter	—	—	
	AD	4,958,360	9-18-90	Sari	—	—	
	AE	5,115,453	5-19-92	Calderbank et al.	—	—	
AS	AF	5,168,509	12-1-92	Nakamura et al.	—	—	
	AG						
	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
AS	AJ	0122805	10-24-84	EP	—	—	X	
AS	AK	63-180280	7-25-88	JP	—	—	abstract	
	AL							
	AM							
	AN							

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AS	AO	"Optimum Weighted PCM for Speech Signals", Sundberg, IEEE Transactions on Communications, Volume COM-26, No. 6, June 1978, Pages 872-881.
	AP	
	AQ	

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.